

figure 1

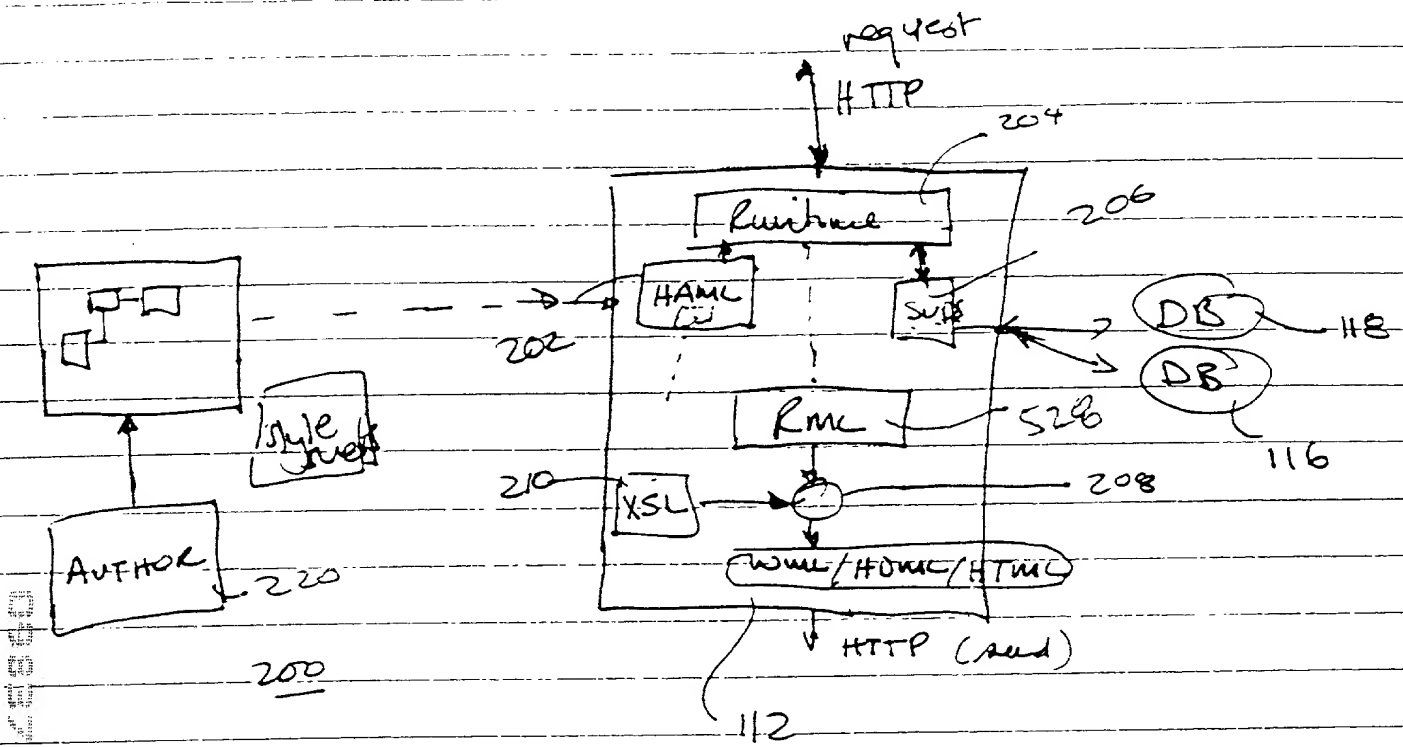


Figure 2

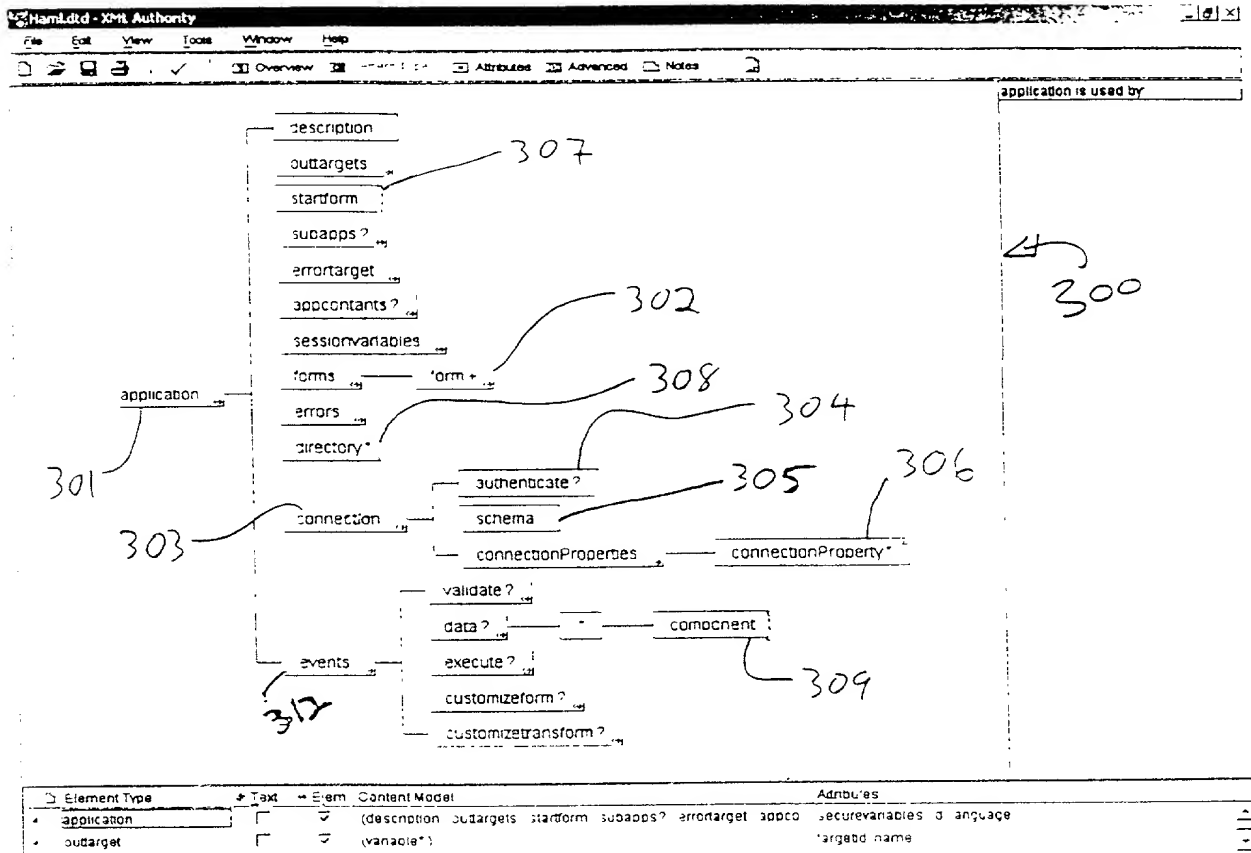


Figure 3

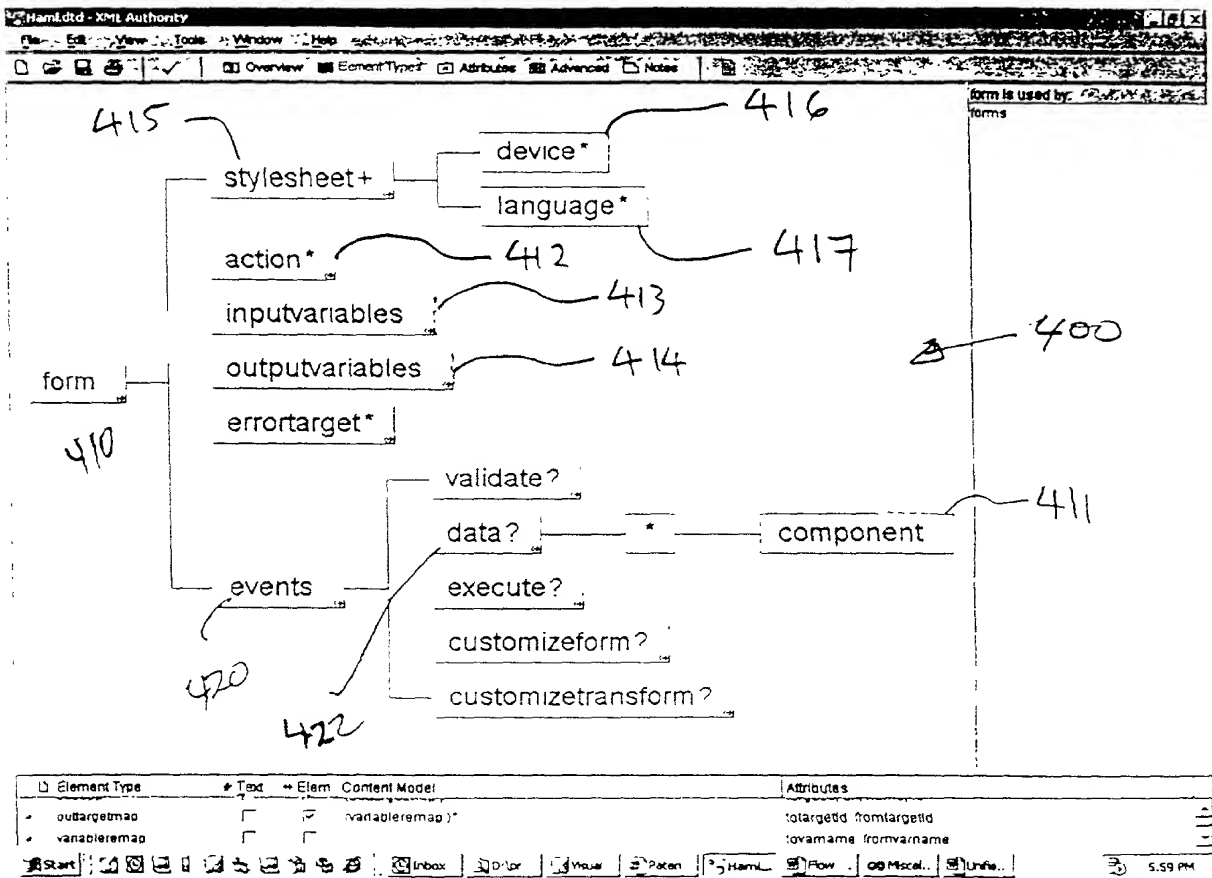


Figure 4

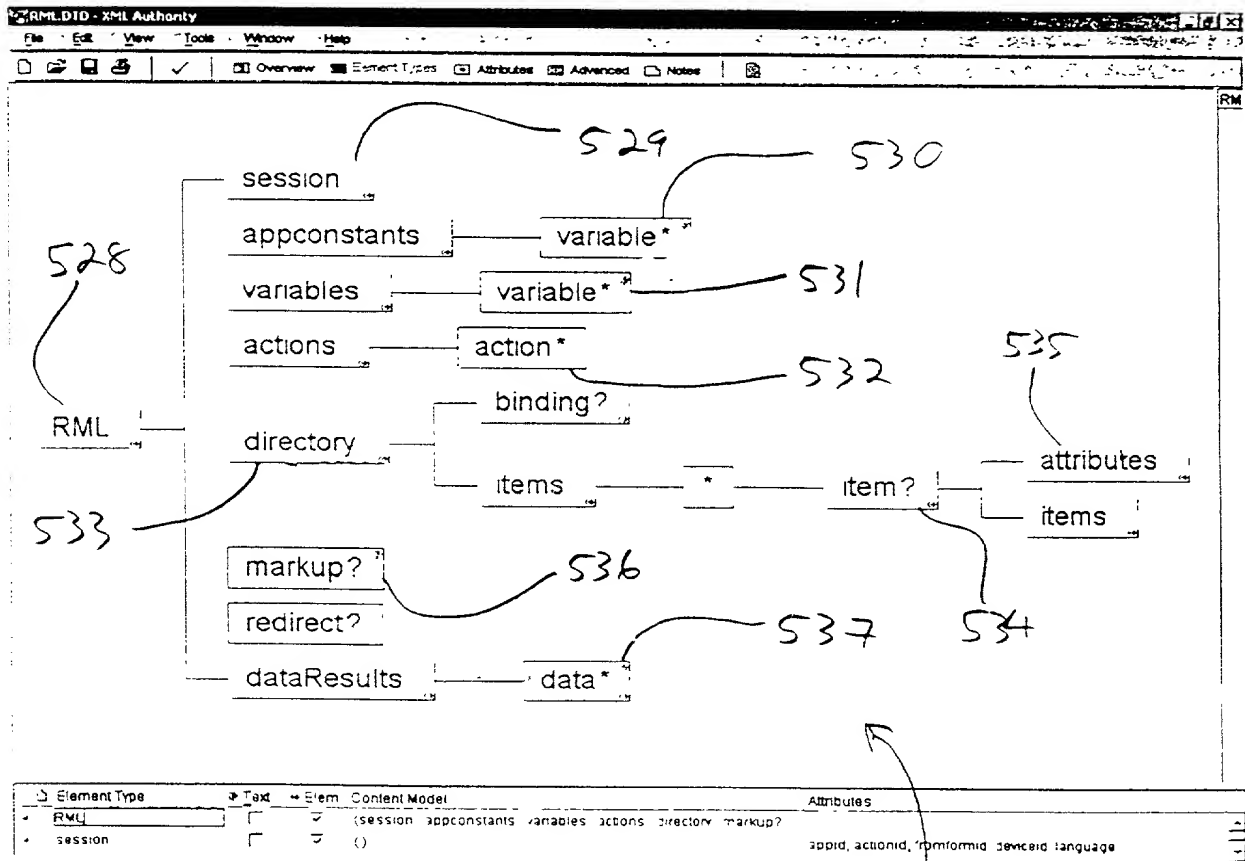


Figure 5

500

FIG. 6 is a block diagram of a system architecture.

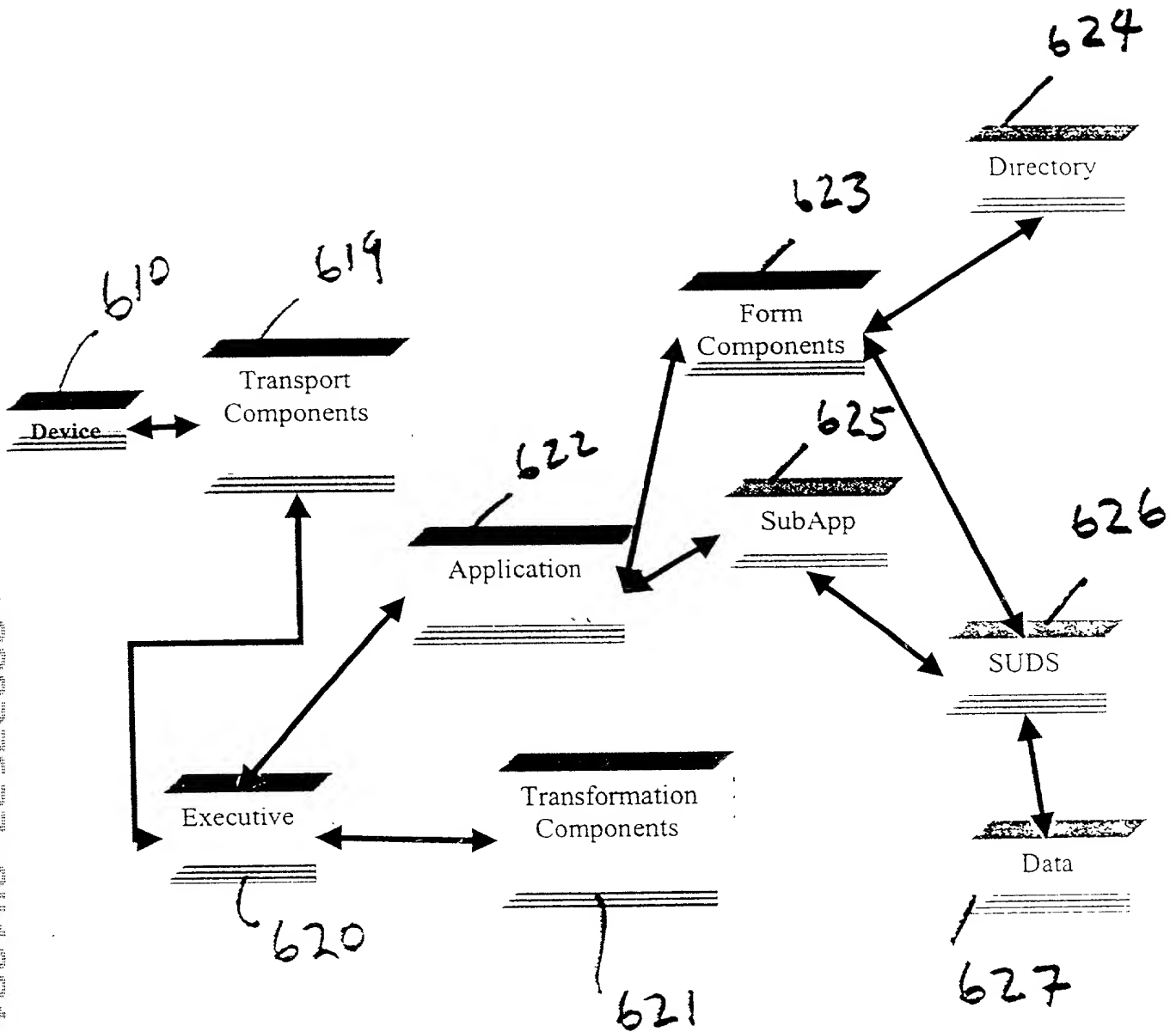


Fig 6

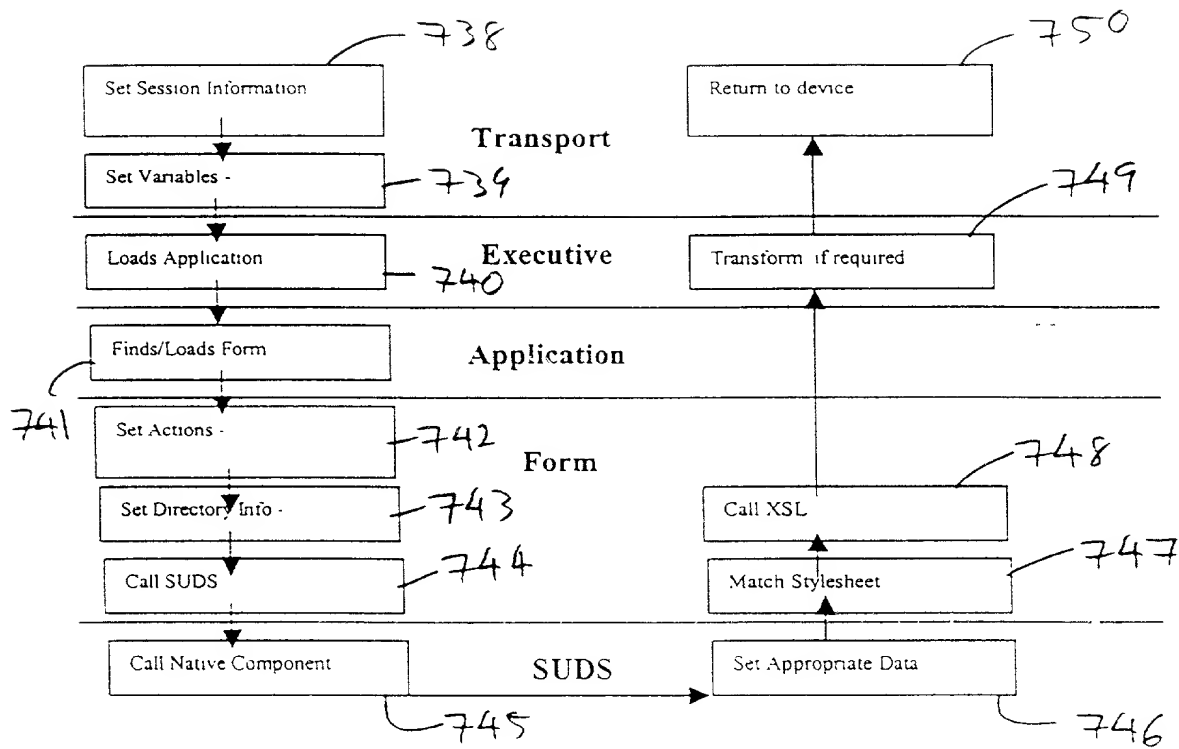


Figure 7





```

<?xml version="1.0" encoding="UTF-8" ?>
- <application usecookies="false" id="{F6681A6F-FB7C-4901-855C-08791DDE8DC8}"
  securevariables="false">
    <description version="1" name="MQBanking" />
    <outtargets />
    <startform totargetid="UserID" />
    <subapps />
    <errortarget totargetid="UserID" />
  - <properties>
    <variable default="209.23.23.23" name="ServerIP" />
  </properties>
  - <sessionvariables>
    <variable name="Session" />
  </sessionvariables>
  - <forms>
    - <form targetid="UserID" includeheaders="false">
      <stylesheet contenttype="WML11" url="http://www.mobileq.com" />
      <action totargetid="Password" name="OK" />
      <inputvariables />
      - <outputvariables>
        <variable name="UserID" />
      </outputvariables>
      <events />
    </form>
    - <form targetid="Password" includeheaders="false">
      <stylesheet contenttype="WML11" url="http://www.mobileq.com" />
      <action totargetid="Main" name="OK" />
      - <inputvariables>
        <variable name="UserID" />
      </inputvariables>
      - <outputvariables>
        <variable name="Session" />
      </outputvariables>
      <events />
    </form>
    - <form targetid="Main" includeheaders="false">
      <stylesheet contenttype="WML11" url="http://www.mobileq.com" />
      <action totargetid="Account" name="Account Balance" />
      <action totargetid="Bill Payment" name="Bill Payment" />
      <action totargetid="Transfer" name="Account Transfer" />
      <inputvariables />
      <outputvariables />
      <events />
    </form>
    - <form targetid="Account" includeheaders="false">
      <stylesheet contenttype="WML11" url="http://www.mobileq.com" />
      <action totargetid="Details" name="OK" />
      <inputvariables />
      - <outputvariables>
        <variable name="AccountID" />
      </outputvariables>

```

Fig 8(b)

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    <events />
</form>
- <form targetid="Details" includeheaders="false">
    <stylesheet contenttype="WML11" url="http://www.mobileq.com" />
    <action totargetid="Main" name="OK" />
    - <inputvariables>
        <variable name="AccountID" />
    </inputvariables>
    <outputvariables />
    <events />
</form>
- <form targetid="Bill Payment" includeheaders="false">
    <stylesheet contenttype="WML11" url="http://www.mobileq.com" />
    <action totargetid="Bill" name="OK" />
    <inputvariables />
    - <outputvariables>
        <variable name="AccountID" />
    </outputvariables>
    <events />
</form>
- <form targetid="Bill" includeheaders="false">
    <stylesheet contenttype="WML11" url="http://www.mobileq.com" />
    <action totargetid="Amount" name="OK" />
    - <inputvariables>
        <variable name="AccountID" />
    </inputvariables>
    - <outputvariables>
        <variable name="BillID" />
        <variable name="AccountID" />
    </outputvariables>
    <events />
</form>
- <form targetid="Amount" includeheaders="false">
    <stylesheet contenttype="WML11" url="http://www.mobileq.com" />
    <action totargetid="Confirm" name="OK" />
    - <inputvariables>
        <variable name="BillID" />
        <variable name="AccountID" />
    </inputvariables>
    - <outputvariables>
        <variable name="AccountID" />
        <variable name="BillID" />
        <variable name="Amount" />
    </outputvariables>
    <events />
</form>
- <form targetid="Confirm" includeheaders="false">
    <stylesheet contenttype="WML11" url="http://www.mobileq.com" />
    <action totargetid="Main" name="Cancel" />
    - <inputvariables>
        <variable name="AccountID" />
        <variable name="BillID" />

```

Fig 8(c)

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        <variable name="Amount" />
    </inputvariables>
    - <outputvariables>
        <variable name="AccountID" />
        <variable name="BillID" />
        <variable name="Amount" />
    </outputvariables>
    <events />
</form>
</forms>
<errors />
<events />
</application>

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Fig 8(d)

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- <tml>
- <dataresults>
- <data name="source1">
- <RECORDS>
- <RECORD>
  <Blair PK="1">172-32-1176</Blair>
  <Test1 PK="1">1</Test1>
  <Test2 PK="1">2</Test2>
  <Test3 PK="1">3</Test3>
  <LastName>White</LastName>
  <FirstName>Johnson</FirstName>
</RECORD>
- <RECORD>
  <Blair PK="1">213-46-891</Blair>
  <Test1 PK="1">1</Test1>
  <Test2 PK="1">2</Test2>
  <Test3 PK="1">3</Test3>
  <LastName>Green</LastName>
  <FirstName>Marjorie</FirstName>
</RECORD>
- <RECORD>
  <Blair PK="1">238-95-7766</Blair>
  <Test1 PK="1">1</Test1>
  <Test2 PK="1">2</Test2>
  <Test3 PK="1">3</Test3>
  <LastName>Carson</LastName>
  <FirstName>Cheryl</FirstName>
</RECORD>
- <a>
- <RECORD>
  <Blair PK="1">238-95-7766</Blair>
  <Test1 PK="1">1</Test1>
  <Test2 PK="1">2</Test2>
  <Test3 PK="1">3</Test3>
  <LastName>Carson</LastName>
  <FirstName>Cheryl</FirstName>
</RECORD>
</a>
- <a>
- <b>
- <RECORD>
  <Blair PK="1">238-95-7766</Blair>
  <Test1 PK="1">1</Test1>
  <Test2 PK="1">2</Test2>
  <Test3 PK="1">3</Test3>
  <LastName>Carson</LastName>
  <FirstName>Cheryl</FirstName>
</RECORD>
</b>
</a>
</RECORDS>

```

Fig 9.a)

```

</data>
- <data name="source2">
- <RECORDS>
- <RECORD>
  <Blair PK="1">aaaaaa</Blair>
  <Test1 PK="1">1</Test1>
  <Test2 PK="1">2</Test2>
  <Test3 PK="1">3</Test3>
  <LastName>White</LastName>
  <FirstName>Johnson</FirstName>
</RECORD>
- <RECORD>
  <Blair PK="1">bbbbbbb</Blair>
  <Test1 PK="1">1</Test1>
  <Test2 PK="1">2</Test2>
  <Test3 PK="1">3</Test3>
  <LastName>Green</LastName>
  <FirstName>Marjorie</FirstName>
</RECORD>
- <RECORD>
  <Blair PK="1">cccccc</Blair>
  <Test1 PK="1">1</Test1>
  <Test2 PK="1">2</Test2>
  <Test3 PK="1">3</Test3>
  <LastName>Carson</LastName>
  <FirstName>Cheryl</FirstName>
</RECORD>
- <a>
  - <RECORD>
    <Blair PK="1">4dddddd</Blair>
    <Test1 PK="1">1</Test1>
    <Test2 PK="1">2</Test2>
    <Test3 PK="1">3</Test3>
    <LastName>Carson</LastName>
    <FirstName>Cheryl</FirstName>
  </RECORD>
</a>
- <a>
  - <b>
    - <RECORD>
      <Blair PK="1">eeeeeeee</Blair>
      <Test1 PK="1">1</Test1>
      <Test2 PK="1">2</Test2>
      <Test3 PK="1">3</Test3>
      <LastName>Carson</LastName>
      <FirstName>Cheryl</FirstName>
    </RECORD>
  </b>
</a>
</RECORDS>
</data>
</dataresults>

```

Fig. 9(b)

```
- <actions>
  <action formatstring="" actionid="OK" querystring="?
    _SQRSIGN=A&_SQAPPID={B77444A1-BD9E-4248-A664-
    6C483F8B4540}&_ACTIONID=OK&_SQFORMID={8D7B4336-6341-
    4D2C-B2D8-49FE88D1B13A}&EmployeeID=$EmployeeID" />
</actions>
- <dictionary>
  <variable />
  <variable />
</dictionary>
</rml>
```

Fig 9(c)

```

- <xsl:stylesheet xmlns:xsl="http://www.w3.org/TR/WD-xsl">
- <xsl:template match="/">
- <wml>
- <head>
  <meta name="FormType" content="SQSelectForm" />
  <meta name="ListMethod" content="numeric" />
</head>
- <card>
  <xsl:attribute name="title">qwe</xsl:attribute>
- <p>
  - <select>
    <xsl:attribute name="title">qwe</xsl:attribute>
    <xsl:attribute name="name">asd</xsl:attribute>
    - <xsl:for-each select="/rml/dataresults/data
      [@name='source2']//RECORD">
      - <option>
        - <xsl:attribute name="value">
          <xsl:value-of select="Blair" />
          z1z
          <xsl:value-of select="Test1" />
          z1z
          <xsl:value-of select="Test2" />
          z1z
          <xsl:value-of select="Test3" />
        </xsl:attribute>
        - <xsl:attribute name="title">
          <xsl:value-of select="LastName" />
          ,
          <xsl:value-of select="FirstName" />
          ,
          <xsl:value-of select="/rml/data
            [@name='source1']/RECORDS/RECORD/Blair" />
        </xsl:attribute>
        blah blah blah
      </option>
    </xsl:for-each>
  </select>
</p>
- <xsl:for-each select="/rml/actions//action">
- <do>
  <xsl:attribute name="type">accept</xsl:attribute>
  - <xsl:attribute name="label">
    <xsl:value-of select="@actionid" />
  </xsl:attribute>
  - <go>
    - <xsl:attribute name="href">
      <xsl:value-of select="@querystring" />
    </xsl:attribute>
  </go>
</do>
</xsl:for-each>
</card>

```

Fig 10(a)

```
</wml>
</xsl:template>
</xsl:stylesheet>
```

Fig 10(b)

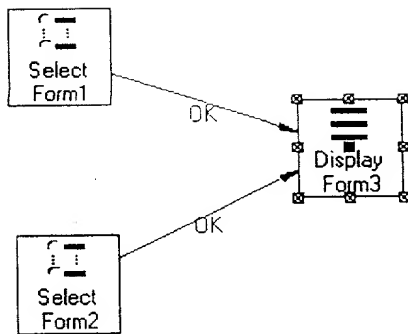


```

- <wml>
- <head>
  <meta name="FormType" content="SQSelectForm" />
  <meta name="ListMethod" content="numeric" />
</head>
- <card title="Select Account">
- <p>
  - <select title="Select Account" name="HoldingsAccountID">
    <option value="1" title="Acct 10314">Acct 10314</option>
    <option value="2" title="Acct 11345">Acct 11345</option>
  </select>
  <br />
</p>
- <do type="accept" label="OK">
  <go href="?_SQRSIGN=A&_SQAPPID={8D360BDF-E570-45E9-BEC1-
    4E5DD949C5C0}&_ACTIONID=OK&_SQFORMID={BCC091A1-63D4-
    11D3-9E34-0090273EFC3B}
    &HoldingsAccountID=$(HoldingsAccountID)
    &UserID=246531&Session=1" />
</do>
</card>
</wml>

```

Fig- 11



### Display Form Properties

Display | Events | Variables | Links | StyleSheets | Info

Form Title:

Display Items:

- Session Variables
- Form Input Variables**
  - strFirstName
  - strLastName**
- Form Output Variables
- Application Data
- Form Data

OK Cancel Apply Help

Form Input Variable .

Fig. 12

# Select Form Properties

Select | Events | Variables | Links | StyleSheets | Info

Form Title:

Select Items

Selected Element:

List Text:

Output Variable Name

Value:

Session Variables

Form Input Variables

Form Output Variables

Application Data

Form Data

News

moreovernews

(Text)

article

(Text)

@id

access\_registration

access\_status

cluster

document\_url

harvest\_time

headline\_text

media\_type

source

tagline

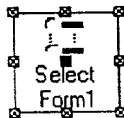
url

OK

Cancel

Apply

Help



List Text

Figure 13

**Select Form Properties** [X]

Select | Events | Variables | Links | StyleSheets | Info |

Form Title: [ ]

Select Items: [ ]

Selected Element: [ ]

List Text: [ ]

Output Variable:

Name: [ ]

Value: [ ]

OK Cancel Apply Help

Form Data

News

moreovernews

(Text)

article

(Text)

@id

access\_registration

access\_status

cluster

document\_url

harvest\_time

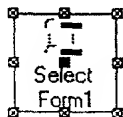
headline\_text

media\_type

source

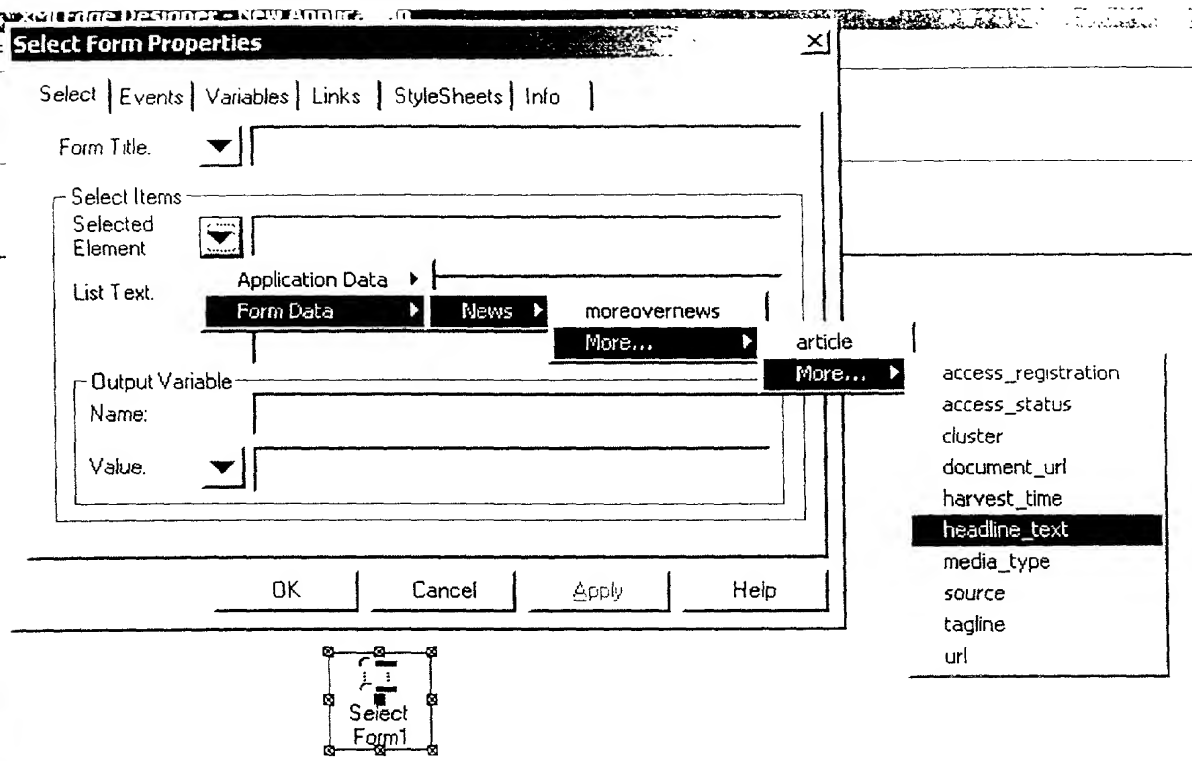
tagline

url



Form Data .

Figure 20 14



Selected Element.

Figure 15

**Select Form Properties** [X]

Select | Events | Variables | Links | StyleSheets | Info

Form Title ▼ <%/state/variables/variable[@name='strLastName']%>

Select Items

Selected Element ▼ taresults/data[@name='News']/moreovernews/article%>

List Text ▼ [%name='News']/moreovernews/article/headline\_text%>

Output Variable

Name: strName

Value: ▼ <%/document\_url%>

OK Cancel Apply Help

Fieldchooser Output

Figure ~~16~~ 16